Institutional Effectiveness Achievement Report

Parameter Title | Parameter Value
---|---
Organization | Computer Science: BS Computer Science
Assessment Period | 2012-2013
Outcome/Goal Type | Student Learning Outcome

Mission Statement
The Computer Science Department produces graduates with excellent problem-solving, communication and team skills who are able to design, implement and document computer software systems. To this end the Department offers Bachelor of Science and Master of Science degree programs. The Departmental faculty is committed to excellence in teaching and actively engages in research and public service activities to support the educational mission of the University and to contribute to the knowledge of the computer science discipline. The Department also provides computer literacy education for the general University population.

Summary of Achievements
There is no summary to report since the outcome is not scheduled for measurement until Spring 2014. However, the course has been developed, approved, and is scheduled for Fall 2013.

Outcomes and Goals Assessment Plans

The following tables contain outcome/goal data for Assessment Period: 2012-2013

<table>
<thead>
<tr>
<th>Outcome/Goal</th>
<th>Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>Students will demonstrate an understanding of professional ethical, legal, security, and social issues and responsibilities of software design and computer use.</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Measure 1:</th>
<th>Person Responsible:</th>
<th>Completion Date:</th>
<th>Extent of Outcome's Achievement/Results for Measure 1:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Measurement 1: 70% of students taking the PHIL 3150 Ethics course will score 70% or better on objective questions</td>
<td>Chairperson in Computer</td>
<td></td>
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</tr>
</tbody>
</table>
related to Computer Science ethical, legal, security, and social issues. This will be evaluated in the spring of even numbered years (Spring 2014 is the next scheduled time).

**Overall Outcome Results:**

Not scheduled for measurement this year. It will be evaluated in Spring 2014.

**This program outcome/general goal was:**

*If less than Met, program should plan further action to improve performance.

Not Met Further Action Unnecessary

**What strengths were displayed through the assessments of your measures?**

No analysis can be done since the measurement is not scheduled until Spring 2014.

**What weaknesses were displayed through the assessments of your measures?**

No analysis can be done since the measurement is not scheduled until Spring 2014.

**Additional Comments:**

No analysis can be done since the measurement is not scheduled until Spring 2014.

**Recommendation 1:**

Data/Recommendations from Previous Cycle: only 43% of the students taking the test were able to score 70% or higher Recommend that the Philosophy Department be contacted to develop a course strictly four Computer Science Majors. Faculty from our Department should have input regarding the content of the course.

Current Recommendations: No recommendations since not scheduled for measurement til Spring 2014. However, the course has been developed, approved, and is scheduled for Fall 2013.

**Action Plan**

**Use of Results:**

There are no results since the outcome is not scheduled for measurement until Spring 2014. However, the course has been developed, approved, and is scheduled for Fall 2013.

**Assessment Changes:**

**Programmatic Changes:**

**Person/Group Responsible for Action:**

**Target Date for implementation of the action:**

**Priority:**

**Outcome/Goal**

Students will demonstrate the ability to function effectively on teams to accomplish a common goal.

**Measure 1:**

Measurement 1: 70% of students taking CSCI 4160 will meet or exceed expectations on each performance

**Person Responsible:** chairperson

**Completion Date:**

Extent of Outcome's Achievement/Results for Measure 1:

86% of the students got only meets or exceeds expectations on the Team Responsibility portion of the rubric,
Overall Outcome Results:
The students performed at the same level or better than those of the previous assessment cycle.

This program outcome/general goal was:

| Met | Further Action Unnecessary |

What strengths were displayed through the assessments of your measures?
Overall, the students show an ability to function well in a team environment.

What weaknesses were displayed through the assessments of your measures?
There are students who either don't come to class or will not cooperate.

Recommendation 1:

Data/Recommendations from Previous Cycle: 83% of students either met or exceeded expectations on the performance indicators for "Graduates will be able to effectively discharge their responsibilities as a member/leader of the team".
-83% of students either met or exceeded expectations on the performance indicators for "Graduates will be able to cooperate with other team members effectively."
-79% of students either met or exceeded expectations on the performance indicators for "Graduates will be able to make appropriate contribution for team work/project based on their skills". The evaluation of these results during the January departmental meeting did not identify any issues. We will reevaluate this in two years.

Recommend no changes at this time.

Action Plan

Use of Results:
The instructor will continue with the current mode of operation. This will be revisited in Fall 2014.

Assessment Changes:

Programmatic Changes:

Person/Group Responsible for Action:

Target Date for implementation of the action:

Priority:

Outcome/Goal

Students will demonstrate the ability to communicate effectively with a range of audiences.

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<thead>
<tr>
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<th>Extent of Outcome's Achievement/Results for Measure 1:</th>
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</thead>
<tbody>
<tr>
<td>Measurement 1: 70% of the students in...</td>
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</table>
CSCI 3210 will meet or exceed expectations on each performance indicator on the rubric (Presentation) located at http://mtsu.edu/csc/Assessment.php. The measurement will be done in the spring of odd numbered years.

| Measure 2: 70% of the students in CSCI 4700 will meet or exceed expectations on each performance indicator on the rubric (Writing) located at http://mtsu.edu/csc/Assessment.php. The measurement will be done every other year beginning Fall 2012. |
| Person Responsible: Instructor for 4700 and Chairperson | Completion Date: 12/31/2012 | Extent of Outcome's Achievement/Results for Measure 2: 92% of the students met or exceeded expectations on all aspects of the writing rubric. |

**Overall Outcome Results:**

For both measurements, the students met the goal.

**This program outcome/general goal was:**

*If less than Met, program should plan further action to improve performance.*

**Met**

**What strengths were displayed through the assessments of your measures?**

For writing assessment, students were strongest in the areas of writing the conclusion and grammar/spelling.

For oral communication, students were strongest in the areas of organization, effectiveness, and content. i.e., they are good at organizing and planning their presentation.

**What weaknesses were displayed through the assessments of your measures?**

For writing assessment, students were weakest in the area of writing a purpose statement.

For oral communication, students were weakest in the areas of delivery and audience. i.e., they tended to read their notes and not look at the audience.

**Additional Comments:**

**Recommendation 1:**

Data/Recommendations from previous assessment cycle: 36 students were evaluated in the CSCI 3210 class in the Spring of 2011. 69% of these students met or exceeded expectations on all performance indicators. After questioning the students it was determined that not all COMM 2200 classes require multimedia presentations. We are considering requesting that multimedia presentations be a part of every COMM 2200 class. Students were required to visit the writing center to get help on the presentation. The instructor will investigate how much help students received, and the faculty will discuss possible changes to this process.

10-11 Instructor Reports in Faculty meetings indicated that students were not always given much help at the writing center usually because they just showed up at the last minute because it was required. Also it was discovered, by talking with students, that they did not practice their presentations before giving them. The faculty was unsure what could be done about this.

The Chair forgot to follow up on the request to have all COMM 2200 classes require multimedia presentations. 11-
Instructor Reports in Faculty meetings indicated that students were encouraged to practice their presentations prior to giving them and to make appointments with the writing center prior to going.

Current recommendations: For writing assessment, Even though the students met the goal, the faculty was able to determine that there was room for improvement in the area of writing purpose statements. The instructor will provide more detailed instruction related to writing purpose statements including a definition of the purpose component of a research paper with examples of correct execution of purpose in writing. For the oral communication, the students met the goal and are doing much better. The faculty member will continue to encourage the students to practice the presentations prior to giving them.

**Action Plan**

**Use of Results:**

The instructor in CSCI 4700 will provide more detailed instruction related to writing purpose statements including a definition of the purpose component of a research paper with examples of correct execution of purpose in writing. This will be revisited in Fall 2014.

The instructor in CSCI 3210 will encourage the students to practice the presentations prior to giving them. The outcome will be revisited in spring 2015.

**Assessment Changes:**

**Programmatic Changes:**

**Person/Group Responsible for Action:**

**Target Date for implementation of the action:**

**Priority:**

**Outcome/Goal**

A graduating student will demonstrate an ability to apply knowledge of computing and mathematics appropriate to the discipline.

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<tr>
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<th>Extent of Outcome's Achievement/Results for Measure 1:</th>
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<tbody>
<tr>
<td>Measurement 1: 70% of students taking CSCI 3080 will score at least 7 out of 10 on each of the seven areas of an objective test. This evaluation will be done in the fall of even numbered years.</td>
<td>chairperson and instructor for 3080</td>
<td>12/31/2012</td>
<td>The percent successful in each section were: Formal Logic 89% Proofs and Recurrence Relations 81% Matrices 100% Graph Terminology 76% Graph Algorithms 100% Automata Theory 86% Encoding Schemes 76%</td>
</tr>
</tbody>
</table>

**Overall Outcome Results:**

The students performed better on all areas of the test than those students in the last assessment cycle.

**This program outcome/general goal was:**

*If less than Met, program should plan further action to improve performance.*
What strengths were displayed through the assessments of your measures?

Students are very strong in the area of Matrices and Graph Algorithms

What weaknesses were displayed through the assessments of your measures?

Students' weakest areas were Graph Terminology and Encoding Schemes.

Recommendation 1:

Data/Recommendations from Previous Assessment Cycle: The percentages that scored 70% or more on each area of the test were:
- Formal Logic 74%
- Proofs and Recurrence Relations 48%
- Matrices 100%
- Graph Terminology 58%
- Graph Algorithms 74%
- Automata Theory 74%
- Encoding Schemes 58%

The instructor indicated that there were some problems with this course because it was part on-ground and part synchronous online and that the online students did not seem to do as well on the homework and tests. Given the importance of the material, the class will not be offered online again until it can be determined how to best handle that. In addition, the topics with the lowest scores were taught toward the end of the semester, so some of the topic material will be reordered to see if that has an effect on student understanding.

Current Recommendation: recommend that we continue using the current curriculum for at least one more cycle to insure that it is not just an anomaly, but really is an improvement. Also, after closer inspection of specific problems that were missed, the committee recommended that the instructor add a discussion of set theory symbols such as subset and proper subset to one of the lectures.

Action Plan

Use of Results:
Will continue with the existing curriculum with the exception that the instructor will add a discussion of set theory symbols such as subset and proper subset to one of the lectures.

Assessment Changes:        Programmatic Changes:       

Person/Group Responsible for Action: Instructor

Target Date for implementation of the action: 01/17/2013

Priority: High

Outcome/Goal

Graduating students will display an ability to analyze a problem and identify and define the computing requirements appropriate to its solution.

Measure 1: 70% of students taking Measurement 1: 70% of students taking
CSCI 3110 will score 70% or better on objective test questions. This evaluation will be done in the spring of odd numbered years. Chairperson and instructor for 3110: 06/30/2013

Overall Outcome Results:
The faculty member forgot to put the assessment questions on the final exam. So this will be done in Fall 2013.

This program outcome/general goal was:
*If less than Met, program should plan further action to improve performance.

Met: Further Action Planned

What strengths were displayed through the assessments of your measures?
Strengths and Weaknesses will be evaluated by June 2013

What weaknesses were displayed through the assessments of your measures?
The faculty member forgot to put the assessment questions on the final exam. So this will be done in Fall 2013.

Additional Comments:
Strengths and Weaknesses will be evaluated by June 2013.

Recommendation 1:
Data/Recommendations from Previous Assessment Cycle: 74% of the students were able to score 70% or better on the objective test. It appeared that the students were just guessing on some of the problems because the problem statement was so long. Recommend that the problems be rewritten in such a way as to encourage the students to actually read the problem. For instance, to sort a list of six or seven numbers instead of 10 or more. Also to ask questions about each piece of an algorithm instead of just asking for a final answer.

Current Recommendations: The faculty member forgot to put the assessment questions on the final exam. So this will be done in Fall 2013.

Action Plan

Use of Results:
Actions will be determined by June 2013

The faculty member forgot to put the assessment questions on the final exam. So this will be done in Fall 2013.

Assessment Changes:
Programmatic Changes:

Person/Group Responsible for Action:
Target Date for implementation of the action:
Priority:

Outcome/Goal
Graduating students will demonstrate an ability to design, implement, and evaluate a computer-based system, process, component, or program to meet desired needs.

Measure 1: Person Responsible: Completion Date:
Extent of Outcome's Achievement/Results for Measure 1:
**Measurement 1:** 70% of students taking CSCI 2170 will meet or exceed expectations on each performance indicator of a rubric (Graduates will be able to write a program requiring loops, conditionals, recursion, and procedures) located at http://mtsu.edu/csc/Assessment.shtml. This evaluation will be done in the fall of odd numbered years (Fall 2013 is the next scheduled time).

| Person Responsible: Chairperson and instructor of 2170 | Completion Date: 12/31/2013 | Extent of Outcome's Achievement/Results for Measure 2: This measurement was not scheduled for evaluation this year. |

**Measure 2:** 70% of students taking CSCI 2170 will meet or exceed expectations on each performance indicator of the rubric (Graduates will be able to design and implement a solution to a given problem) located at http://mtsu.edu/csc/Assessment.shtml. This evaluation will be done in the fall of odd numbered years (Fall 2013 is the next scheduled time).

| Person Responsible: Chairperson and instructor for 2170 | Completion Date: 12/31/2013 | Extent of Outcome's Achievement/Results for Measure 2: This measurement was not scheduled for evaluation this year. |

**Measure 3:** 70% of students who take 2170 will be able to score 70% or better on the standardized debugging and testing lab located in http://cslabserver2.cs.mtsu.edu/labs/2170/debugging/index.php#. This lab’s questions are computer graded. This evaluation will be done in the fall of odd numbered years (Fall 2013 is the next scheduled time).

| Person Responsible: chairperson and instructor of 2170 | Completion Date: 12/31/2013 | Extent of Outcome's Achievement/Results for Measure 3: This measurement was not scheduled for evaluation this year. |

**Overall Outcome Results:**
This is not scheduled for evaluation this year. It will be evaluated Fall 2013.

This program outcome/general goal was: *If less than Met, program should plan further action to improve performance.*

Partial Met

Further Action Unnecessary

**What strengths were displayed through the assessments of your measures?**

This is not scheduled for evaluation this year. It will be evaluated Fall 2013.

**Recommendation 1:**
Data/Recommendations from Previous Assessment Cycle: 75% of the class satisfied the measurement. Students were universally good on understanding of procedures and loops. All students received grades of 50% or more on the debugging lab, so students are understanding more than half of the material.

While more than 70% of the students understood recursion and conditional statements and how to design a program, those who did not meet the criteria for measurements 1 and 2 were most likely to fail in these areas. There was also a problem with the debugging lab. After analyzing the grade sheets for every student and reviewing the questions that students missed most, it was clear that questions 4 and 5 were unclear and did not target the intent of the assessment. Recommended that exercises 4 and 5 be modified to better state the intent of the debugging lab assessment for measurement 3.

Current Recommendation: This is not scheduled for evaluation this year. It will be evaluated Fall 2013.

**Action Plan**

**Use of Results:**

This is not scheduled for evaluation this year. It will be evaluated Fall 2013.

**Assessment Changes:**

**Programmatic Changes:**

**Person/Group Responsible for Action:**

**Target Date for implementation of the action:**

**Priority:**

**Outcome/Goal**

Graduating students will demonstrate an ability to analyze the local and global impact of computing on individuals, organizations, and society.

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<tbody>
<tr>
<td>Measurement 1: 70% of students taking the PHIL 3150 Ethics course will score 70% or better on final exam questions related to the local and global impact of computing on individuals, organizations, and society. This will be evaluated in the spring of even numbered years (Spring 2014 is the next time to measure).</td>
<td>Chairperson in Computer Science and Professor in Philosophy</td>
<td>06/30/2014</td>
<td>This outcome was not scheduled for measurement this year. It will be measured in Spring 2014.</td>
</tr>
</tbody>
</table>

**Overall Outcome Results:**

This outcome was not scheduled for measurement this year. It will be measured in Spring 2014.

This program outcome/general goal was: Met

*If less than Met, program should plan further action to improve performance.

**Further Action Unnecessary**

**What strengths were displayed through the assessments of your measures?**

**What weaknesses were displayed through the assessments of your measures?**

**Additional Comments:**
This outcome was not scheduled for measurement this year. It will be measured in Spring 2014.

**Recommendation 1:**

Data/Recommendations from Previous Assessment Cycle: 73% scored 70% or better. Recommend that the Philosophy Department be contacted to develop a course strictly four Computer Science Majors. Faculty from our Department should have input regarding the content of the course.

Current Recommendation: This outcome was not scheduled for measurement this year. It will be measured in Spring 2014. However, the course has been developed, approved, and is scheduled for Fall 2013.

**Action Plan**

**Use of Results:**

This outcome was not scheduled for measurement this year. It will be measured in Spring 2014. However, the course has been developed, approved, and is scheduled for Fall 2013.

**Assessment Changes:**

<table>
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<tr>
<th>Programmatic Changes:</th>
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**Person/Group Responsible for Action:**

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<th>Target Date for implementation of the action:</th>
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**Outcome/Goal**

Graduating students will demonstrate a recognition of the need for and an ability to engage in continuing professional development.

<table>
<thead>
<tr>
<th>Measure 1:</th>
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<th>Extent of Outcome's Achievement/Results for Measure 1:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Measurement 1: In CSCI 4160, 70% or more of the students will score meets or exceeds expectations on the two attributes: 1. Team member uses appropriate tools and processes to resolve the problem/task, including establishing sub tasks, milestones, and quality levels (as necessary); and 2. Team member contributes to success. Measured every other year beginning in Fall 2012.</td>
<td>instructor for 4160 and chairperson</td>
<td>12/31/2012</td>
<td>The data indicated that 82.5% of the students either met or exceeded expectations on both attributes for measurement 1.</td>
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<table>
<thead>
<tr>
<th>Measure 2:</th>
<th>Person Responsible:</th>
<th>Completion Date:</th>
<th>Extent of Outcome's Achievement/Results for Measure 2:</th>
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<tbody>
<tr>
<td>Measurement 2: 70% of the students taking the exit interview will list at least</td>
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<td>77% of the students taking the exit interview listed at least one</td>
</tr>
</tbody>
</table>
Overall Outcome Results:

Measurement 1: While this measurement was not a part of the 2010-2012 assessment cycle, data was available from that cycle for evaluation. That data indicated that 92% of the students either met or exceeded expectations on these two attributes. Fall 2012 Results: The data indicated that 82.5% of the students either met or exceeded expectations on both attributes for measurement 1.

Measurement 2: In the 2011-2012 school year, 71% of the students indicated they intended to learn a new language or tool and that they either were a member of or planned on joining a professional organization. In the current year, 77% of the students taking the exit interview listed at least one language/tool that they had not learned but plan to learn in the future, and listed at least one professional organization that they are either a member of or plan to become a member of in the future.

This program outcome/general goal was:  
*If less than Met, program should plan further action to improve performance.

Met

What strengths were displayed through the assessments of your measures?

For measurement #1, Students were strongest in the area of using appropriate tools and processes to resolve the problem/task, including establishing sub tasks, milestones, and quality levels (as necessary).

For measurement #2, students all indicated that they wanted to learn more languages or tools.

What weaknesses were displayed through the assessments of your measures?

For measurement #1, Students were weakest in contributing to the success of the team.

For measurement #2, some students did not realize the importance of belonging to a professional organization.

Additional Comments:

Recommendation 1:

Data/Recommendations from Previous Assessment Cycle: 10-11 No data because an old exit interview was inadvertently sent to the students. An online exit interview was subsequently developed to make it easier for students to participate in the process and to avoid the problem of students being sent the incorrect interview sheet. 11-12 approximately 50% of the graduating seniors participated in the exit interview process. 100% of the respondents indicated languages or tools that they planned to learn after graduating. 71% indicated that they were already or planned to become a member of a professional organization. No change was recommended at this time from the faculty. However, since the Chairperson meets with each graduating senior to discuss the results of their exit interview, she decided to discuss the importance of professional organizations with each graduating senior each semester.

Current Recommendations: Measurement 1 Even though the students met the goal, the performance had gone down. The faculty determined that there was room for improvement on the attribute Team member contributes to success. The instructor will add an additional team learning activity to encourage students to engage in continuing
professional development. Specifically, each student will identify a problem they have had or currently have, each of their team members will identify a tool or possible solution for the problem and state why they are recommending this tool/solution, and finally each student will have to choose one of the recommended solutions and explain why they chose it. For Measurement 2, no change recommended at this time.

Action Plan

Use of Results:
The instructor of CSCI 4160 will add an additional team learning activity to encourage students to engage in continuing professional development. Specifically, each student will identify a problem they have had or currently have, each of their team members will identify a tool or possible solution for the problem and state why they are recommending this tool/solution, and finally each student will have to choose one of the recommended solutions and explain why they chose it.

No new actions planned based on the exit interview.

Assessment Changes: Programmatic Changes:

Person/Group Responsible for Action:
Target Date for implementation of the action:
Priority:

Outcome/Goal
Students will demonstrate an ability to use current techniques, skills, and tools necessary for computing practice.

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>Measurement 1: 70% of the students taking CSCI 4700 will score competent or exemplary on 70% of the performance indicators found on the rubric (software engineering I) located at <a href="http://mtsu.edu/csc/Assessment.shtml">http://mtsu.edu/csc/Assessment.shtml</a> Data will be gathered in the fall of odd numbered years (Fall 2013 is the next scheduled time).</td>
<td>chairperson and instructor for 4700</td>
<td>12/31/2013</td>
<td>This outcome was not scheduled for evaluation this year. It will be evaluated during fall 2013.</td>
</tr>
</tbody>
</table>

Overall Outcome Results:
This outcome was not scheduled for evaluation this year. It will be evaluated during fall 2013.

This program outcome/general goal was: *If less than Met, program should plan further action to improve performance.
Met Further Action Unnecessary

What strengths were displayed through the assessments of your measures? What weaknesses were displayed through the assessments of your measures? Additional Comments:
This outcome was not scheduled for evaluation this year. It will be evaluated during fall 2013.

**Recommendation 1:**

Data/Recommendations from Previous Assessment Cycle: 72% of students were competent or exemplary on all performance indicators. recommends no changes at this time.

Current Recommendation: This outcome was not scheduled for evaluation this year. It will be evaluated during fall 2013.

### Action Plan

**Use of Results:**

This outcome was not scheduled for evaluation this year. It will be evaluated during fall 2013.

<table>
<thead>
<tr>
<th>Assessment Changes:</th>
<th>Programmatic Changes:</th>
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**Person/Group Responsible for Action:**

**Target Date for implementation of the action:**

**Priority:**

### Outcome/Goal

Students will demonstrate an ability to apply mathematical foundations, algorithmic principles, and computer science theory in the modeling and design of computer-based systems in a way that demonstrates comprehension of the tradeoffs involved in design choices.

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<tbody>
<tr>
<td>Measurement 1: 70% of students taking CSCI 3110 will score 70% or better on objective test questions. This evaluation will be done in the spring of odd numbered years.</td>
<td>chairperson and instructor for 3110</td>
<td>06/30/2013</td>
<td>The faculty member forgot to put the assessment questions on the final exam. So this will be done in Fall 2013.</td>
</tr>
</tbody>
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### Overall Outcome Results:

The faculty member forgot to put the assessment questions on the final exam. So this will be done in Fall 2013.

**This program outcome/general goal was:**

*If less than Met, program should plan further action to improve performance.*

Met

Further Action Planned

What strengths were displayed through the assessments of your measures? Strengths and weaknesses will be evaluated by June 2013

What weaknesses were displayed through the assessments of your measures? Additional Comments:
The faculty member forgot to put the assessment questions on the final exam. So this will be done in Fall 2013.

**Recommendation 1:**

Data/Recommendations from Previous Assessment Cycle: 91% scored 70% or better on the objective test. recommends no changes at this time.

Current Recommendations: The faculty member forgot to put the assessment questions on the final exam. So this will be done in Fall 2013.

**Action Plan**

**Use of Results:**

Possible actions will be determined by June 2013.

The faculty member forgot to put the assessment questions on the final exam. So this will be done in Fall 2013.

**Assessment Changes:**

**Programmatic Changes:**

**Person/Group Responsible for Action:**

**Target Date for implementation of the action:**

**Priority:**

**Outcome/Goal**

Students will demonstrate an ability to apply design and development principles in the construction of software systems of varying complexity.

**Measure 1:**

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</table>
| chairperson and instructor for 4700 | 12/31/2013 | This outcome was not scheduled for evaluation this year. It will be evaluated during fall 2013.

**Overall Outcome Results:**

This outcome was not scheduled for evaluation this year. It will be evaluated during fall 2013.

**This program outcome/general goal** *If less than Met, program should plan further action to improve
was: **performance.**

<table>
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<tr>
<th>Met</th>
<th>Further Action Unnecessary</th>
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### What strengths were displayed through the assessments of your measures?

This outcome was not scheduled for evaluation this year. It will be evaluated during fall 2013.

### What weaknesses were displayed through the assessments of your measures?

### Additional Comments:

### Recommendation 1:

**Data/Recommendations from Previous Assessment Cycle:** 76% of the students scored competent or exemplary on all performance indicators. recommends no changes at this time.

**Current Recommendation:** This outcome was not scheduled for evaluation this year. It will be evaluated during fall 2013.

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### Action Plan

**Use of Results:**

This outcome was not scheduled for evaluation this year. It will be evaluated during fall 2013.

**Assessment Changes:**

**Programmatic Changes:**

**Person/Group Responsible for Action:**

**Target Date for implementation of the action:**

**Priority:**

15:36:32 CDT